

## CLAIMS

What is claimed is:

- 5     1.     A system for treating migraine headaches comprising:  
administering means for administering a medication composition;  
rectal adapting means operatively connected to said administering  
means for insertion through an anus and into a rectum of a  
patient; and
- 10     a medication composition including an effective amount of a medication  
that can effectively treat migraine headaches of the patient, said  
medication composition being contained within said  
administering means.
- 15     2.     The system according to claim 1, wherein said administering means is  
selected from the group consisting of a syringe, a medical bulb, and a  
depressible chamber.
- 20     3.     The system according to claim 2, wherein said administering means is  
made from material selected from the group consisting of plastic, metal,  
rubber, glass, and combinations thereof.
- 25     4.     The system according to claim 2, wherein said syringe is defined as a  
body having a cylindrical barrel with a first end and a second end, wherein  
said first end is open for insertion of said medication composition and said  
second end is engaged to said rectal adapting mechanism.
- 30     5.     The system according to claim 4, wherein said syringe further includes  
pressure means operatively inserted into said first end for providing pressure  
for subsequent dispersion of said medication composition.

6. The system according to claim 5, wherein said pressure means is defined as a plunger having a plunger seal and plunger rod.

5 7. The system according to claim 6, wherein said pressure means, said cylindrical barrel, and said second end form a chamber for containing said medication composition therein.

8. The system according to claim 1, wherein said administering means  
10 includes cartridge means for containing a pre-measured dosage of medication composition, said cartridge is inserted into said cylindrical barrel.

9. The system according to claim 8, wherein said cartridge means is made  
15 from material selected from the group consisting of plastic, metal, glass, and foil.

10. The system according to claim 1, wherein said rectal adapting means is  
20 selected from the group consisting of a repository needle, plastic tubing, rubber hosing, and elongated hollow chamber.

11. The system according to claim 1, wherein said rectal adapting means is  
25 defined as an elongated tube having a distal end and an outlet in the vicinity of the distal end, for introducing the medication composition through the anus and into the rectum through said outlet.

12. The system according to claim 11, wherein said outlet end is blunt.

13. The system according to claim 11, wherein said rectal adapting means  
30 is made from material selected from the group consisting of plastic, metal, rubber, and combinations thereof.

14. The system according to claim 1, wherein said medication composition includes effective amounts of medicine selected from the group consisting of valproate, sodium valproate, valproate salts, relproic acid, ergotamine,  
5 ergotamine-like agents, serotonin agonists, 5HT agonists, caffeine with ergots, aspirin, acetaminophen, naproxen sodium, tolfenamic acid, and ibuprofen.

15. The system according to claim 14, wherein said medication is an effective amount of appropriate medication for the effective treatment of a  
10 migraine headache.

16. The system according to claim 15, wherein said effective amount is selected from the group consisting of 750 mg, 1000 mg, and 1500 mg.

15 17. The system according to claim 16, wherein said medication composition is in a form selected from the group consisting of a liquid, gel, paste, viscous solution, suspension, and solid.

18. The system according to claim 17, wherein said medication composition  
20 includes additional ingredients selected from the group consisting of thickeners, solvents, preservatives, and combinations thereof.

19. The system according to claim 18, wherein said thickeners are selected from the group consisting of cellulose ethers, methylcellulose, carboxy-  
25 methylcellulose, hydroxypropylcellulose, hydroxypropylmethylcellulose, biogums, and carboxy vinyl polymers.

20. The system according to claim 18, wherein said solvents are selected from the group consisting of water, deionized water, distilled water, organic  
30 solvents, saline, and oils.

21. The system according to claim 18, wherein said preservatives are selected from the group consisting of benzyl alcohol, thimerosal, chlorobutanol, methyl parabens, propyl parabens, and benzalkonium chloride.

5

22. A medicine suppository comprising a medication composition including an effective amount of valproate for the treatment of a migraine headache.

23. The medicine suppository according to claim 22, wherein said valproate is selected from the group consisting of valproate, sodium valproate, valproate salts, and valproate variations thereof.

10

24. The medicine suppository according to claim 22, wherein said medication composition further includes medicine selected from the group consisting of relproic acid, ergotamine, ergotamine-like agents, serotonin agonists, 5HT agonists, caffeine with ergots, aspirin, acetaminophen, naproxen sodium, tolfenamic acid, and ibuprofen.

15

25. The medicine suppository according to claim 23, wherein said medication is an effective amount of appropriate medication for the effective treatment of a migraine headache.

20

26. The medicine suppository according to claim 25, wherein said effective amount is selected from the group consisting of 750 mg, 1000 mg, and 1500 mg.

25

27. The system according to claim 22, wherein said medication composition includes additional ingredients selected from the group consisting of thickeners, solvents, and preservatives.

30

28. A kit for treatment of a migraine headache comprising a system including administering means for administering a medication composition, rectal adapting means operatively connected to said administering means for insertion through an anus and into a rectum of a patient, and a medication  
5 composition including an effective amount of a medication that can effectively treat migraine headaches of the patient, said medication composition being contained within said administering means.

29. The kit according to claim 28, wherein said administering means  
10 includes cartridge means for containing a pre-loaded and pre-measured effective amount of the medication composition.

30. A method of treating a migraine headache by administering an effective amount of a medication composition into the rectum of an individual.

31. A method of treatment of a migraine by:  
loading an effective amount of a medication composition within an  
apparatus having an administration mechanism operatively  
connected to a rectal adapting mechanism, the administration  
20 mechanism further including a pressure mechanism; and  
administering the medication composition into the rectum of a patient.

32. The method according to claim 31, wherein said administering step is defined as inserting the rectal adapting mechanism into the anus of a patient  
25 and depressing the pressure mechanism of the administration mechanism.